

REMARKS**35 USC § 103**

All pending claims were deemed to be obvious over Kip (US 5105190) in view of Moskowitz (US 5528222) and Carroll (US 4857893). The applicant believes that the previously pending claims were allowable as drafted, but in the spirit of moving the application forward, has made the amendments set forth above.

In particular, the claims all now recite that the antenna on-chip the integrated circuit (IC) receives sufficient wave energy to power the IC. That was not known in the prior art, and would not have been contemplated by one of ordinary skill in the art as of the priority date. Indeed, the reason that Moskowitz placed his antenna outside the IC was apparently because he believed that he needed a large antenna. The one reference that has an on-chip antenna, Carroll, is completely silent as to whether the antenna could provide sufficient power to operate the chip, and instead teaches that its chip is powered by an external battery. Thus, the Office failed to set forth a

In setting forth its *prima facie* case of obviousness, the Office argued (page 3, penultimate paragraph) that the motivation for combining the references was reduced cost and compactness of the housing. That argument is ineffective where one of ordinary skill in the art would have expected the claimed combination to fail. Here, one of ordinary skill in the art would have expected the claimed combinations to fail because such a person would have expected that an antenna disposed on an IC would not produce enough power to operate the IC.

A similar argument holds for power storage. Kip has an IC (encoder 7), but powers the IC using off-chip discrete components. As of the priority date of the current application, one of ordinary skill in the art would have expected that on-chip components would not be able to store enough energy. Thus, one of ordinary skill in the art would not only have expected an on-chip antenna to supply insufficient power to operate the chip, but such a person would have also expected that on-chip components would not be able to store enough energy to operate the chip.

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Request For Allowance

Claims 27-28, 33-52, and 54-109 are pending in this application. The applicant requests allowance of all pending claims.

Respectfully submitted,
Rutan & Tucker, LLP

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By: 
Robert D. Fish
Reg. No. 33,880

Attorneys for Applicant(s)
Post Office Box 1950
Costa Mesa, CA 92628-1950
Tel: (714) 641-5100
Fax: (714) 546-9035
Customer No. 34284

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